Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

INDEX

Acer glabrum, 49, 83, 87, 88, Pl. VI: 1a, b, c.
Aconitum columbianum, 59, 85, 86, Pl. VII: 3a, b.
Actaea rubra, 33.
Adoxa moschatellina, 33, 34, Pl. II: 7.
Agoseris aurantiaca, 36, 38, 90, Pl. III: 7; Agoseris glauca, 36.
Allionia hirsuta, 43; Allionia linearis, 79, 83, 85, 86, Pl. IX: 2a, b, c.
Alsine baicalensis, 36; Alsine longipes, 36.
Ambrosia psilostachya, 43.
Androsace subumbellata, 37.
Anemone globosa, 35.
Anogra coronopifolia, 42; Anogra pallida, 41.
Antennaria imbricata, 38; Antennaria mucronata, 38; Antennaria nardina, 38; Antennaria parvifolia, 38; Antennaria sp., 38, Pl. IV: 3.
Apocynum androsaemifolium, 71, 85, 86, Pl. VIII: 5a, b.
Aquilegia brevistylis, 37; Aquilegia coerulea, 37.
Arabis oxyphylla, 42; Arabis fendleri, 42, Pl. V: 6.
Aralia nudicaulis, 72, 85, 86.
Aragalus lamberti, 42, 45; Aragalus multiceps, 40.
Argemone intermedia, 41.
Arnica cordifolia, 33, 35, Pl. II: 11.
Artemisia dracunculoides, 40; Artemisia gnaphalodes, 72, 85, 86; Artemisia ludoviciana, 72, 85, 86, Pl. VIII: 6a, b; Artemisia scouleriana, 40.
Asclepiodora decumbens, 43, Pl. V: 2.
Asplenium filix-foemina, 32.
Aster frondosus, 43; Aster geyeri, 38, 43; Aster torreyi, 77, 85, 86.
Astragalus adsurgens, 43; Astragalus drummondii, 42, Pl. V: 5.
Atragene acutiloba, 71, 85, 86.
Bahia dissecta, 43, Pl. V: 8.
Batrachium aquatile, 46, 87, 88, Pl. I: 2a, b.
Besseya alpina, 37; Besseya plantaginea, 37.
Betula glandulosa, 37; Betula occidentalis, 37.
Bidens bigelovii, 69, 83, Pl. VIII: 3a, b.
Blitum capitatum, 64, 85, 86, Pl. VII: 6a, b.
Boebera papposa, 77, 85, 86.
Bursa bursa-pastoris, 64, 85, 86, 87.
Callitriche bifida, 46, 87, 88, Pl. I: 3a, b.
Calypso boreale, 33, 34.
Campanula petiolata, 65, 85, 86; Campanula uniflora, 36.
Capnoides aureum, 69, 85, 86.
Carduus scopulorum, 40.
Castilleia confusa, 34; Castilleia integra, 42; Castilleia occidentalis, 40; Castilleia sp., 34; Castilleia sulphurea, 34, Pl. III: 2.
Cerastium strictum, 36.
Chamaenerium angustifolium, 57, 82, 83, 85, 86, 87, 88, 89, Pl. VI: 5a, b, c, d.
Chenopodium fremontii, 48, 87, 88.
Chrysopsis amplifolia, 42; Chrysopsis sp., 42; Chrysopsis villosa, 43.
Cicuta grayii, 32, 35, Pl. II: 6.
Claytonia megarrhiza, 35.
Clematis ligusticifolia, 48.
Clementsia rhodantha, 35, Pl. III: 3.
Cleome serrulata, 42.
Coleanthus albicaule, 43; Coleanthus congestum, 39.
Dasyphora fruticosa, 70, 82.

Dodecatheon pauciflorum, 35.
Draba aureiformis, 37; Draba sp., 37; Draba streptocarpa, 36, 54, Pl. III: 8.
Dryas octopetala, 38.
Drymocallis fissa, 66, 82, 83.
Edwinia americana, 48, 83, 84, 87, 88.
Elephantella groenlandica, 36.
Epilobium adenocaulon, 32, Pl. II: 4; Epilobium paniculatum, 43.
Erigeron canus, 41; Erigeron conspicuus, 36, 38; Erigeron debilis, 43; Erigeron elatior, 43; Erigeron flagellaris, 41; Erigeron glandulosus, 41; Erigeron leucotrichus, 43; Erigeron minor, 36, 38; Erigeron multifidus, 40; Erigeron pinnatisectus, 40; Erigeron pumilus, 41; Erigeron speciosus, 38, 74, 85, 86; Erigeron subtrinervis, 36, 38; Erigeron superbus, 34.
Eriogonum alatum, 43; Eriogonum annuum, 42; Eriogonum effusum, 42.
Erodium cicutarium, 33, 34, 35.
Erysimum elegans, 42.
Euphorbia robusta, 75, 85, 86.
Fragaria bracteata, 50, 83, 84, 87, 88; Fragaria glauca, 38; Fragaria pumila, 37.
Galium aparine, 33; Galium boreale, 67, 85, 86, Pl. VIII: 1a, b; Galium triflorum, 51, 85, 86, Pl. VI: 2a, b.
Gaura parviflora, 42.
Gentiana acuta, 56, 85, 86; Gentiana affinis, 39, Pl. IV: 8; Gentiana frigida, 35.
Geranium caespitosum, 65, 85, 86; Geranium richardsonii, 33, 34, 51, 89, Pl. VI: 3a, b.
Geum oregonense, 37.
Gilia aggregata, 40.
Grindelia squarrosa, 44, Pl. V: 3.
Gutierretzia sarothrae, 75, 85, 86.
Gymnolomia multiflora, 42.
Gyrostachys stricta, 34, Pl. III: 1.
Halerpestes cymbalaria, 36.
Hedeoma nanum, 42.
Helianthus petiolaris, 44; Helianthus pumilus, 44, 80, 85, 86, Pl. IX: 4a, b; Helianthus scaberrimus, 44, Pl. V: 4.
Heracleum lanatum, 55, 87, 88.
Heuchera hallii, 39; Heuchera parvifolia, 39, Pl. IV: 6.
Hippuris vulgaris, 46, 87, 88, Pl. I: 4a, b.
Holodiscus dumosa, 67, 85, 86.
Hymenopappus luteus, 40.
Isoetes lacustris paupercula, 31, Pl. I: 1.
Kuhnia gooddingii, 39.
Kuhniastera oligophylla, 43; Kuhniastera purpurea, 41.
Laciniaria punctata, 40.
Lactuca ludoviciana, 65, 83, 84.
Lappula cupulata, 42.
Lesquerella montana, 42, 45.
Lilium montanum, 35, Pl. III: 4.
Limnorchis stricta, 32, 34, Pl. II: 2.
Lithospermum linearifolium, 41; Lithospermum parviflorum, 41.
Machaeranthera aspera, 77, 85, 86, Pl. VIII: 8a, b; Machaeranthera cichoracea, 40.
Macronema pygmaeum, 42, 45.
Malvastrum coccineum, 43.
Mentzelia albicaulis, 40; Mentzelia nuda, 40.
Meriolix serrulata, 42.
Mertensia alpina, 41; Mertensia ciliata, 33; Mertensia lateriflora, 41; Mertensia linearis, 41, Pl. IV: 10; Mertensia polyphylla, 58, 81, 82, 87, 88, Pl. VII: 2a, b; Mertensia pratensis, 33.
Mirabilis oxybaphoides, 39.
Monarda menthifolia, 42, 73, 85, 86, Pl. VIII: 7a, b.
Moneses uniflora, 33, Pl. II: 8.
Onagra strigosa, 41.
Opulaster intermedia, 56, 85, 86.
Oreocarya fruticosa, 41; Oreocarya virgata, 41.
Oreoxis alpina, 41; Oreoxis humilus, 41.

Pachylophus caespitosus, **78**, 85, 86, Pl. IX: 1a, b.
Parietaria pennsilvanica, **33**, 34, Pl. II: 9.
Paronychia pulvinata, **41**.
Pedicularis canadensis, **36**; Pedicularis parryi, **36**; Pedicularis procera, **39**, Pl. IV: 5.
Pentstemon brandegei, **43**; Pentstemon brandegei prostratus, **43**; Pentstemon glaucus, **68**, 85, 86; Pentstemon hallii nanus, **43**; Pentstemon humilis, **42**; Pentstemon torreyi, **43**; Pentstemon unilateralis, **43**, Pl. V: 7.
Pericome caudata, **36**.
Phacelia glandulosa, **39**; Phacelia heterophylla, **39**; Phacelia lyallii, **39**, Pl. IV: 4.
Physaria acutifolia, **40**.
Pirola chlorantha, **37**.
Plantago purshii, **41**.
Polemonium pulchellum, **53**, 83, 84, 87, 88, Pl. VI: 4a, b; Polemonium speciosum, **34**.
Polygonum bistortoides, **60**, 82; Polygonum convolvulus, **68**, 85, 86, Pl. VIII: 2a, b; Polygonum viviparum, **37**.
Populus tremuloides, **37**, Pl. IV: 2.
Potentilla bipinnatifida, **39**; Potentilla coloradensis, **42**; Potentilla minutifolia, **39**; Potentilla monspeliensis, **39**; Potentilla propinqua, **64**, 85, 86; Potentilla pulcherrima, **39**; Potentilla rubricaulis, **39**.
Primula angustifolia, **36**; Primula parryi, **55**, 89, Pl. VII: 1a, b.
Prunus demissa, **63**, 85, 86.
Pseudocymopterus anisatus, **75**, 85, 86; Pseudocymopterus montanus, **40**; Pseudocymopterus montanus purpureus, **38**, Pl. I: 7; Pseudocymopterus tenuifolius, **54**, 85, 86, 87, 88.
Psoralea lanceolata, **44**.
Pulsatilla hirsutissima, **39**.
Quercus novimexicana, **62**, 83, Pl. VII: 4a, b.
Ranunculus inamoenus, **61**, 82.
Rhus trilobata, **37**.
Rosa sayii, 33.
Rudbeckia flava, **74**, 85, 86; Rudbeckia laciniata, **55**, 83, Pl. VI: 6a, b.
Rydbergia grandiflora, 45, **62**.
Salix nuttallii, **37**; Salix pseudolapponum, **37**; Salix saximontana, **37**, Pl. IV: 1.
Saxifraga debilis, **32**, 35, Pl. II: 5; Saxifraga interrupta, **61**, 83, 84; Saxifraga punctata, **31**, Pl. II: 1.
Scutellaria brittonii, **70**, 85, 86, Pl. VIII: 4a, b.
Sedum roseum, **35**.
Senecio carthamioides, **32**, 35; Senecio chloranthus, **36**, 38; Senecio crocatus, **35**, Pl. III: 5; Senecio eremophilus, **39**; Senecio pudicus, 38, **53**, 87, 88; Senecio rosulatus, **76**, 81, 85, 86; Senecio spartioides, **78**, 85, 86; Senecio taraxacoides, **44**.
Sibbaldia procumbens, **39**.
Sideranthus spinulosum, **40**.
Sieversia turbinata, **60**, 83.
Solanum triflorum, **79**, 85, 86.
Solidago decumbens, **41**; Solidago extraria, **41**, **74**, 85, 86; Solidago missouriensis, **41**; Solidago multiradiata, **41**; Solidago oreophila, **41**; Solidago pallida, **40**, Pl. V: 1.
Sparganium angustifolium, **47**, 83, 84, Pl. I: 5a, b, c.
Spergula sp., **36**.
Streptopus amplexifolius, **32**, **34**.
Swertia scopulina, **60**, 82.
Symphoricarpos oreophila, **68**, 85, 86.
Tetraneuris glabriuscula, **40**; Tetraneuris lanata, **40**.
Thalictrum sparsiflorum, **52**, 83, 85, 86, 87, 88.
Thelesperma gracile, **40**.
Thelypodium micranthum, **42**.

Thermopsis rhombifolia, **43**.
Therophon jamesii, 70, 85.
Thlaspi coloradense, **76**, 85, 86.
Touterea multiflora, **40**, Pl. IV: 9.
Trifolium dasyphyllum, **42**.
Vagnera leptosepala, **32**, 34, Pl. II: 3; Vagnera stellata, **80**, 82, 85, 86,
Valeriana acutiloba, **62**, 85, 86.
Veronica wormsjoldii, **36**, Pl. III: 6.
Viburnum pauciflorum, **63**, 85, 86, Pl. VII: 5a, b.
Viola blanda, **33**; Viola palustris, **33**, 35, Pl. II: 10.
Washingtonia obtusa, **32**.
Ximenesia encelioides, **73**, 85, 86.
Zygadenus elegans, **34**.

INDEX

NOTE.—An index to the genera treated of in Edith S. Clements' article on Relation of Leaf Structure to Physical Factors will be found on page 99; to the genera referred to in Robert H. Wolcott's Review of the Genera of the Water-mites, on page 242.

Aberdein, Robert, sketch of, 281
Acari—review of the genera of water-mites, 161; structure of the American cattle tick, 245
Algae, green, classification of, 132; green, relationship of to the lower animals, 134; lower green, structure and classification of, 121
Allen, W. E., Internal Morphology of the American Cattle Tick, 245
American Microscopical Society, a retrospect of twenty-five years of, 137

Bacteria, 6; nitrifying, 8; nitrogen-fixation by, 15; of the soil, 7; root-tubercle, 11
Bessey, Charles E., The Structure and Classification of the Lower Green Algae, 121
Burrill, T. J., The Micro-organisms of the Soil and Human Welfare, 5
By-Laws, 292

Clements, Edith S., The Relation of Leaf Structure to Physical Factors, 19
Colorado—investigations on relation of leaf structure to physical factors, carried on in Pike's peak region, 19
Constitution, 291
Contributions to the Copepod Fauna of Nebraska and other States, by A. S. Pearse, 145
Copepoda, of Nebraska and other states, 145
Costa Rica, copepoda of, 145
Cryptobranchus, histology of enteron and integument of, 109
Custodian's Report, by Magnus Pflaum, 289

Digestive system, of the American cattle tick, 257
Documents, legal, the microscope in the examination of, 103

Enteron and Integument of *Cryptobranchus allegheniensis,* The, by Albert M. Reese, 109

Fell, George E., Special Cases, illustrating the Value of the Microscope in the Examination of Legal Documents, 103

Higgins, Francis Wesley, sketch of, 283
Histology, of enteron and integument of *Cryptobranchus,* 109; of the American cattle tick, 245
Hydrachnidae, genera of, 182

Integument, of *Cryptobranchus,* 116; of the American cattle tick, 247
Internal Morphology of the American Cattle Tick, by W. E. Allen, 245
Intestine, of *Cryptobranchus,* 114
Iowa, copepoda of, 145

Krauss, William C., Twenty-five Years of the American Microscopical Society—A Retrospect, 137

Leaf structure, relation to physical factors, 19
Legal documents, the microscope in the examination of, 103

Malpighian tubules, of the American cattle tick, 264
Members, list of, 295
Micro-organisms of the Soil and Human Welfare, The, by T. J. Burrill, 5
Microscope, the value of the, in the examination of legal documents, 103
Minutes of twenty-seventh annual meeting, 285
Mites, genera of water-, 182
Mouth, of *Cryptobranchus,* 109
Mouth-parts, of the American cattle tick, 251
Musculature, of the American cattle tick, 247

Nebraska, Copepoda of, 145
Necrology, 281
Nervous system, of the American cattle tick, 267

Oesophagus, of *Cryptobranchus,* 110
Ontario, copepoda of, 145

Pearse, A. S., Contributions to the Copepod Fauna of Nebraska and other States, 145
President, Annual Address of, by T. J. Burrill, 5

Rectum, of *Cryptobranchus,* 115
Reese, Albert M., The Enteron and Integument of *Cryptobranchus allegheniensis,* 109
Relation of Leaf Structure to Physical Factors, The, by Edith S. Clements, 19
Reproductive system, of the American cattle tick, 268
Respiratory system, of the American cattle tick, 266
Review of the Genera of the Water-mites, A, by Robert H. Wolcott, 161

Soil, micro-organisms of, 5
Special Cases, illustrating the Value of the Microscope in the Examination of Legal Documents, George E. Fell, 103
Spencer-Tolles Fund, report of, 289
Stomach, of *Cryptobranchus,* 112
Structure and Classification of the Lower Green Algae, The, by Charles E. Bessey, 121
Subscribers, list of, 302

Tick, American cattle, internal structure of, 245
Tongue, of *Cryptobranchus,* 109
Treasurer's Report, by J. C. Smith, 290
Twenty-five Years of the American Microscopical Society—A Retrospect, by William C. Krauss, 137

Washington, copepoda of, 145
Water-mites, characters of, 163; classification of, 169; grouping of, 175; review of genera of, 182; table for determination of, 221
Wolcott, Robert H., A Review of the Genera of the Water-mites, 161